

<b>POWER OF ATTORNEY REVOCATION OF PRIOR POWERS</b>	<b>Inventor:</b>	Terumi SUNAGA
	<b>Patent Number:</b>	6,381,233 (Serial No. 10/717,424)
	<b>Issue Date:</b>	April 30, 2002 (Filed November 19, 2003)
	<b>Title:</b>	SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER, AND CDMA MOBILE COMMUNICATION SYSTEM AND METHOD
	<b>Group Art Unit:</b>	
	<b>Examiner:</b>	

I/We hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application and hereby appoint the following attorneys to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Thomas F. Peterson, 24790; Richard J. Streit, 25765; Donald P. Reynolds, 26220; W. Dennis Drehkoff, 27193; Vangelis Economou, 32341; Brian W. Hameder, 45613; Valerie Neymeyer-Tynkov, 46956; Paul B. West, 18947; Joseph H. Handelman, 26179; Peter D. Galloway 27885; John Richards, 31503; Iain C. Baillie, 24090; Richard P. Berg, 28145

Please change the correspondence address for the above-identification application to:

Richard J. Streit  
**Ladas & Parry**  
224 South Michigan Avenue  
Chicago, Illinois 60604  
(312) 427-1300

*Customer No. 26530*

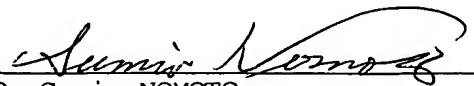
I am the:

- ☐ Applicant/Inventor  
☒ Assignee of record of the entire interest  
*Statement under 37 CFR 3.73(b) is enclosed*

Mitsubishi Denki Kabushiki Kaisha

November 28, 2003

Date

  
By: Sumio NOMOTO  
Title: General Manager,  
Patent Administration Department



DOCKET: CU-3446

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

APPLICANT: Terumi SUNAGA

SERIAL NO: 10/717,424

FILING DATE: November 19, 2003

TITLE: SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND  
RECEIVER, AND CDMA MOBILE COMMUNICATION SYSTEM AND  
METHOD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**APPOINTMENT OF ASSOCIATE ATTORNEYS**

Dear Sir:

The undersigned Attorney for Applicant in the above identified application for Letters Patent, hereby appoints individually and collectively as my Associate Attorneys, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent & Trademark Office connected therewith:

Edward J. Chalfie, Reg. 29370  
W. William Park, Reg. 55523

Please address and send all correspondence to:

Richard J. Streit  
Ladas & Parry  
224 South Michigan Avenue  
Chicago, Illinois 60604  
(312) 427-1300  
Customer No. 26530

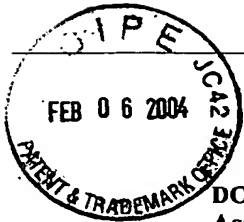
February 3, 2004

Date

17

  
Attorney for Applicant

Richard J. Streit, Reg. 25765  
c/o Ladas & Parry  
224 South Michigan Avenue  
Chicago, Illinois 60604  
(312) 427-1300



DOCKET: CU-3446 (CU-1516)  
Assent of Assignee

REISSUE PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Reissue Application of: Terumi SUNAGA

U.S. Patent No.: 6,381,233

Serial No. 10/717,424  
Filed November 19, 2003

Issued On: April 30, 2002

For: SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER,  
AND CDMA MOBILE COMMUNICATION SYSTEM AND METHOD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**ASSENT OF ASSIGNEE TO FILING OF REISSUE APPLICATION**

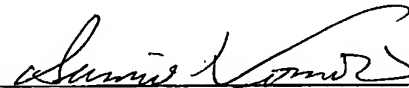
Sir:

This is part of the application for a reissue patent filed herewith based on the original patent identified in the header above as the United States Patent No. 6,381,233.

MITSUBISHI DENKI KABUSHIKI KAISHA, presently at the address of 2-3, Marunouchi 2-Chome, Chiyoda-Ku, Tokyo 100-8310, Japan, a private limited corporation formed and operating under the laws of Japan, the present assignee of the entire right, title and interest in U.S. Patent No. 6,381,233, consents to the filing of the present reissue application for the reissue of U.S. Patent No. 6,381,233.

Enclosed is a "Statement under 37 CFR 3.73(b) - Establishing Right of Assignee to Take Action."

Dated: November 28, 2003

Signed: 

Name: Sumio NOMOTO  
General Manager,  
Patent Administration Department

Title: \_\_\_\_\_  
MITSUBISHI DENKI KABUSHIKI KAISHA



DOCKET: CU-3446 (CU-1516)  
Establishing Assignee Rights Under 37 CFR 3.37(b)

REISSUE PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Reissue Application of: Terumi SUNAGA

U.S. Patent No.: 6,381,233

Serial No. 10/717,424 filed  
November 19, 2003

Issued On: April 30, 2002

For: SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER,  
AND CDMA MOBILE COMMUNICATION SYSTEM AND METHOD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT UNDER 37 CFR 3.73(b)  
ESTABLISHING RIGHTS OF ASSIGNEE TO TAKE ACTION**

Sir:

The ASSIGNEE of the entire right, title and interest hereby seeks to take action in the  
United States Patent and Trademark Office in this matter.

**IDENTIFICATION OF ASSIGNEE**

MITSUBISHI DENKI KABUSHIKI KAISHA

*Name of assignee*

A private limited corporation formed and operating under the laws of Japan

*Type of assignee*

**PERSON AUTHORIZED TO SIGN**

Sumio NOMOTO

*(Type name of person authorized to sign on behalf of assignee)*

General Manager, Patent Administration Department

*Title of the person authorized to sign*

I, the person signing below, state that that I am empowered to sign this document on  
behalf of the assignee.

**BASIS OF ASSIGNEE'S INTEREST**

Ownership by the assignee is established as follows by a chain of title from the inventor to the current assignee as shown below:

1. From: Terumi SUNAGA  
To: YRP MOBILE TELECOMMUNICATIONS KEY TECHNOLOGY  
RESEARCH LABORATORIES CO., LTD.  
Recorded in the USPTO: Reel 8455, Frame 0583 ;
2. From: YRP MOBILE TELECOMMUNICATIONS KEY TECHNOLOGY  
RESEARCH LABORATORIES CO., LTD.  
To: MITSUBISHI DENKI KABUSHIKI KAISHA  
Recorded in the USPTO: Reel 013735, Frame 0367.

Copies of the assignments (and other related documents) in the chain of title indicated above are attached.

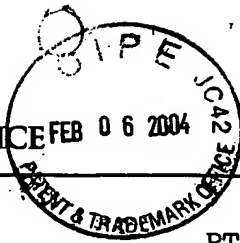
Date: November 28, 2003

Signed: 

Name: Sumio NOMOTO  
General Manager,  
Patent Administration Department  
Title: MITSUBISHI DENKI KABUSHIKI KAISHA



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



LADAS & PARRY  
CHICAGO

JUNE 17, 2003

RICHARD J. STREIT  
C/O LADAS & PARRY  
224 SOUTH MICHIGAN AVENUE  
CHICAGO, IL 60604

PTAS

2003 JUN 26 PM 2:00

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov



\*102363867A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/11/2003

REEL/FRAME: 013735/0367  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

YRP MOBILE TELECOMMUNICATIONS KEY  
TECHNOLOGY RESEARCH LABORATORIES  
CO., LTD.

DOC DATE: 11/21/2002

ASSIGNEE:

MITSUBISHI DENKI KABUSHIKI KAISHA  
2-3, MARUNOUCHI 2-CHOME, CHIYODA-  
KU,  
TOKYO 100-8310, JAPAN

SERIAL NUMBER: 08820608  
PATENT NUMBER: 6381233

FILING DATE: 03/19/1997  
ISSUE DATE: 04/30/2002

MARGARET LASALLE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

RECEIVED: JUNE 17 2003  
RECORDATION DATE: 02/11/2003  
MARGARET LASALLE  
ASSIGNMENT DIVISION

## UNITED STATES ASSIGNMENT

WHEREAS, YRP Mobile Telecommunications Key Technology Research Laboratories Co., Ltd. residing at 21-16, Tarumachi 1-Chome, Kouhoku-Ku, Yokohama-Shi, Kanagawa 222-0001 Japan ( formerly located at : New Stage Yokohama Building, 4F., 1-1-32, Shin-Urashima-Cho, Kanagawa-Ku, Yokohama-Shi, Kanagawa 221 Japan ) (hereinafter referred to as ASSIGNOR) is the owner of all right, title and interest in and to U.S. Letters Patent No.6,381,233 by virtue of the assignment recorded in the United States Patent and Trademark Office on March 19, 1997 at Reel 8455, Frame 0583, and

WHEREAS, Mitsubishi Denki Kabushiki Kaisha, a Japanese Company residing at 2-3, Marunouchi 2-Chome, Chiyoda-Ku, Tokyo 100-8310 Japan, (hereinafter referred to as ASSIGNEE), is desirous of obtaining all right, title and interest, in and to said U. S. Letters Patent No.6,381,233;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, said ASSIGNOR does hereby assign to said Assignee, its entire right, title and interest in and to said U. S. Letters Patent No.6,381,233.

Date : November 21, 2002

By : Shuji Harada  
Shuji HARADA, President  
YRP Mobile Telecommunications  
Key Technology Research Laboratories Co., Ltd.

Attest: 

02-12-2003

Form PTO-1595  
(Rev. 10/02)

OMB No. 0851-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

2-11-03  
YRP MOBILE TELECOMMUNICATIONS KEY  
TECHNOLOGY RESEARCH LABORATORIES  
CO., LTD.Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: November 21, 2002

## 2. Name and address of receiving party(ies)

Name: MITSUBISHI DENKI KABUSHIKI

KAISHA

Internal Address: \_\_\_\_\_

Street Address: 2-3, Marunouchi 2-Chome,  
Chiyoda-Ku, Tokyo 100-8310 Japan

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

6,381,233

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard J. Streit

Internal Address: \_\_\_\_\_

Street Address: c/o Ladas &amp; Parry

224 South Michigan Avenue

City: Chicago State: IL Zip: 60604

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true, correct and any attached copy is a true copy of the original document.

Richard J. Streit

Reg. Name of Person Signing 25765

Signature

February 6, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

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**UNITED STATES DEPARTMENT OF COMMERCE**

**Patent and Trademark Office**

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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 02, 1997

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LADAS & PARRY  
RICHARD J. STREIT  
224 SOUTH MICHIGAN AVENUE  
CHICAGO, IL 60604

1516

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RECORDATION DATE: 03/19/1997

REEL/FRAME: 8455/0583  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

SUNAGA, TERUMI

DOC DATE: 03/12/1997

**ASSIGNEE:**

YRP MOBILE TELECOMMUNICATIONS KEY TECHNOLOGY RESEARCH  
LABORATORIES CO., LTD.  
NEW STAGE YOKOHAMA BUILDING 4F  
1-1-32, SHIN-URASHIMA-CHO, KANAGAWA-KU  
YOKOHAMA-SHI, KANAGAWA 221, JAPAN

SERIAL NUMBER: 08820608

PATENT NUMBER:

FILING DATE:

ISSUE DATE:

MAYA BENNETT, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



03/19/97

66474 U.S. PTO

08/820608



03/19/97

**PATENT**For: ☒ U.S. and/or ☐ Foreign RightsFor: ☒ U.S. Application or ☐ U.S. PatentBy: ☒ Inventor(s) or ☐ Present Owner**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

(inventor(s) or  
person(s) or entity(ies)  
who own the invention)

TERUMI SUNAGA

(Type or print name(s) of ASSIGNOR(S))

8-26-5-103, Kounandai, Kounan-Ku,  
Address

Yokohama-Shi, Kanagawa 234 JapanJapan

Nationality

*(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)*

Recorded on \_\_\_\_\_

Reel \_\_\_\_\_

Frame \_\_\_\_\_

hereby sells, assigns and transfers to  
ASSIGNEE:

YRP MOBILE TELECOMMUNICATIONS KEY TECHNOLOGY  
RESEARCH LABORATORIES CO., LTD.

(Type or print name of ASSIGNEE)

New Stage Yokohama Building, 4F,  
Address

1-1-32, Shin-Urashima-Cho, Kanagawa-Ku,  
Yokohama-Shi, Kanagawa 221 Japan

Japan

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

*(complete one of the following)*

☒ the entire right, title and interest☐ an undivided \_\_\_\_\_ percent (\_\_\_\_\_% ) interest

for the United States and its territorial possessions

*(check the following box if foreign rights are also to be assigned)*

☐ and in all foreign countries

in and to, any and all improvements which are disclosed in the invention entitled:

SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER, AND CDMA  
MOBILE COMMUNICATION SYSTEM AND METHOD

(check and complete (a), (b), (c) or (d))

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith  
(b) ☐ U.S. patent application executed on \_\_\_\_\_  
(c) ☐ U.S. application serial no. \_\_\_\_\_ filed on \_\_\_\_\_  
(d) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
(also check (e) if foreign application(s) is also being assigned)  
(e) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

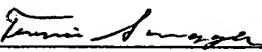
and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any re-issue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;


ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this  
March 12, 1997 (Date of signing).

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

  
\_\_\_\_\_  
Signature of ASSIGNOR(S) TERUMI SUNAGA

Attest:

  
\_\_\_\_\_  
Shunhei Katayama

If ASSIGNOR is a legal entity complete the following information

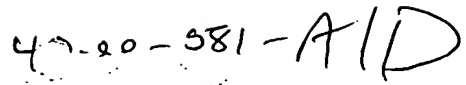
\_\_\_\_\_  
Type or print the name of the above person  
authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention[16-3]— Page 2 of 2



66474 U.S. PTO  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Reissue Application of: Terumi SUNAGA

U.S. Patent No.: 6,381,233

Serial No. 10/717,424 filed  
November 19, 2003

Issued On: April 30, 2002

For: **SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER,  
AND CDMA MOBILE COMMUNICATION SYSTEM AND METHOD**

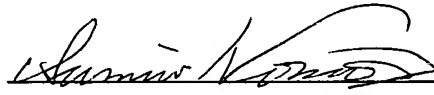
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**OFFER TO SURRENDER THE ORIGINAL PATENT  
BY ASSIGNEE UNDER 37 CFR 1.178**

Sir:

The undersigned, MITSUBISHI DENKI KABUSHIKI KAISHA presently located at the address of 2-3, Marunouchi 2-Chome, Chiyoda-Ku, Tokyo 100-8310, Japan, a private limited corporation formed and operating under the laws of Japan, makes this statement as part of the accompanying reissue application for the reissue of United States Letters Patent No. 6,381,233 (hereinafter "Letters Patent"), titled **SPREAD SPECTRUM COMMUNICATION TRANSMITTER AND RECEIVER, AND CDMA MOBILE COMMUNICATION SYSTEM AND METHOD**, granted on April 30, 2002, to Terumi SUNAGA and declares that MITSUBISHI DENKI KABUSHIKI KAISHA is now the sole owner by assignment of the entire interest in said Letters Patent and hereby offers to surrender said Letters Patent.

Date: November 28, 2003

Signed: 

Name: Sumio NOMOTO

General Manager,  
Title: Patent Administration Department  
MITSUBISHI DENKI KABUSHIKI KAISHA